

**DECLARATION
AND POWER OF ATTORNEY
Original Application**

As a below named inventor, I declare that the information given herein is true, that I believe that I am the original, first and sole inventor if only one name is listed at 1 below, or a joint inventor if plural inventors are named below, of the invention entitled:

COLON CANCER KH-1 AND N3 ANTIGENS

which is described and claimed in:

☐ the attached specification or ☒ the specification in application
Serial No. ~~08~~9/042,280, filed
January 13, 1998
(for declaration not accompanying appl.)

that I do not know and do not believe that the same was ever known or used in the United States of America before my or our invention thereof or patented or described in any printed publication in any country before my or our invention thereof, or more than one year prior to this application, or in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months prior to this application, that I acknowledge my duty to disclose information of which I am aware which is material to patentability in accordance with 37 CFR §1.56. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I hereby claim the priority benefits under 35 U.S.C. §119 of any application(s) for patent or inventor's certificate listed below. A ll foreign applications for patent or inventor's certificate on this invention filed by me or my legal representatives or assigns prior to the application(s) of which priority is claimed are also identified below.

PRIOR APPLICATION(S), IF ANY, OF WHICH PRIORITY IS CLAIMED

<u>COUNTRY</u>	<u>APPLICATION NO.</u>	<u>DATE OF FILING</u>
U.S.	60/034,950	January 13, 1997

**ALL FOREIGN APPLICATIONS, IF ANY, FILED PRIOR
TO THE APPLICATION(S) OF WHICH PRIORITY IS CLAIMED**

<u>COUNTRY</u>	<u>APPLICATION NO.</u>	<u>DATE OF FILING</u>
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POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agents(s) to prosecute this application and transact all business in the Patent and Trademark office connected therewith: Gordon D. Coplein #19,165, William F. Dudine, Jr. #20,569, Michael J. Sweedler #19,937, S. Peter Ludwig #25,351, Paul Fields #20,298, Harold E. Wurst #22,183, Joseph B. Lerch #26,936, Melvin C. Garner #26,272, Ethan Horwitz #27,646, Beverly B. Goodwin #28,417, Adda C. Gogoris #29,714, Martin E. Goldstein #20,869, Bert J. Lewen #19,407, Henry Sternberg #22,408, Robert A. Green #28,301, Peter C. Schechter #31,662, Robert Schaffer #31,194, David R. Francescani #25,159, Robert C. Sullivan, Jr. #30,499, Ira J. Levy #35,587, Joseph R. Robinson #33,448, A. David Joran #37,858.

all of the firm of DARBY & DARBY P.C., 805 Third Avenue, New York, NY 10022

SEND CORRESPONDENCE TO:

DARBY & DARBY P.C.
805 Third Avenue
New York, NY 10022

DIRECT TELEPHONE CALLS TO:

A. David Joran, Esq.
212-527-7761

FULL NAME AND RESIDENCE OF INVENTOR 1

LAST NAME: DANISHEFSKY FIRST NAME: Samuel

MIDDLE NAME: J.

CITY: Englewood

STATE OR FOREIGN COUNTRY: New Jersey

COUNTRY OF CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: c/o Office of Industrial Affairs,
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

CITY: New York

STATE OR COUNTRY: New York

ZIP CODE: 10021

FULL NAME AND RESIDENCE OF INVENTOR 2

LAST NAME: DESHPANDE FIRST NAME: Prashant MIDDLE NAME: P.
CITY: Plaindome STATE OR FOREIGN COUNTRY: New Jersey COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 3

LAST NAME: KIM FIRST NAME: In Jong MIDDLE NAME:
CITY: Seoul STATE OR FOREIGN COUNTRY: Korea COUNTRY OF CITIZENSHIP: Korea
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 4

LAST NAME: LIVINGSTON FIRST NAME: Philip MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: USA
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 5

LAST NAME: KIM FIRST NAME: Hyun Jin MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: Korea
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 6

LAST NAME: GOVINDASWAMI FIRST NAME: Ragupathi MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center

1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 7

LAST NAME: PARK

FIRST NAME: Tae Kyo

MIDDLE NAME:

CITY: Taejon

STATE OR FOREIGN COUNTRY: Korea

COUNTRY OF CITIZENSHIP: Korea

POST OFFICE ADDRESS: c/o Office of Industrial Affairs,
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

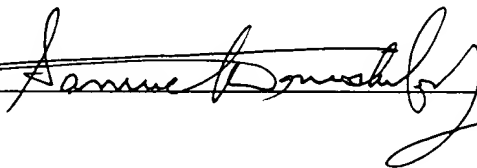
CITY: New York

STATE OR COUNTRY: New York

ZIP CODE: 10021

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 1:



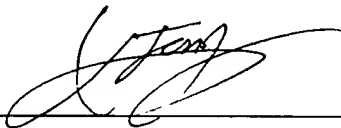
DATED:

2-19-98

SIGNATURE OF INVENTOR 2:

DATED:

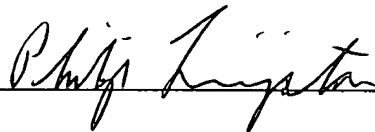
SIGNATURE OF INVENTOR 3:



DATED:

4-2-98

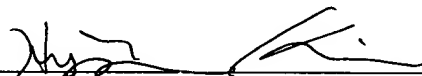
SIGNATURE OF INVENTOR 4:



DATED:

2/19/98

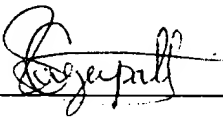
SIGNATURE OF INVENTOR 5:



DATED:

2-16-98

SIGNATURE OF INVENTOR 6:



DATED:

2/19/98

SIGNATURE OF INVENTOR 7:

DATED:

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COLON CANCER KH-1 AND N3 ANTIGENS

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☐ the attached specification or ☒ the specification in application

Serial No. ~~108~~ 9/042,280, filed

January 13, 1998

(for declaration not accompanying appl.)

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U.S.	60/034,950	January 13, 1997

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DIRECT TELEPHONE CALLS TO:

A. David Joran, Esq.
212-527-7761

FULL NAME AND RESIDENCE OF INVENTOR 1

LAST NAME: DANISHEFSKY FIRST NAME: Samuel MIDDLE NAME: J.

CITY: Englewood STATE OR FOREIGN COUNTRY: New Jersey COUNTRY OF CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 2

LAST NAME: DESHPANDE FIRST NAME: Prashant MIDDLE NAME: P.
CITY: Plaindome STATE OR FOREIGN COUNTRY: New Jersey COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
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FULL NAME AND RESIDENCE OF INVENTOR 5

LAST NAME: KIM FIRST NAME: Hyun Jin MIDDLE NAME:
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POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
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FULL NAME AND RESIDENCE OF INVENTOR 6

LAST NAME: GOVINDASWAMI FIRST NAME: Ragupathi MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center

1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 7

LAST NAME: PARK

FIRST NAME: Tae Kyo

MIDDLE NAME:

CITY: Taejon

STATE OR FOREIGN COUNTRY: Korea

COUNTRY OF CITIZENSHIP: Korea

POST OFFICE ADDRESS: c/o Office of Industrial Affairs,
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SIGNATURE OF INVENTOR 1: _____ DATED: _____

SIGNATURE OF INVENTOR 2: Deshpande Prashant DATED: 24 Feb 98

SIGNATURE OF INVENTOR 3: _____ DATED: _____

SIGNATURE OF INVENTOR 4: _____ DATED: _____

SIGNATURE OF INVENTOR 5: Nyza Ki DATED: 2-16-98

SIGNATURE OF INVENTOR 6: _____ DATED: _____

SIGNATURE OF INVENTOR 7: _____ DATED: _____

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Serial No. ~~001~~ 9/042,280, filed
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COUNTRY
U.S.

APPLICATION NO.
60/034,950

DATE OF FILING
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COUNTRY

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LAST NAME: DANISHEFSKY FIRST NAME: Samuel

MIDDLE NAME: J.

CITY: Englewood

STATE OR FOREIGN COUNTRY: New Jersey

COUNTRY OF CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: c/o Office of Industrial Affairs,
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CITY: New York

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CITY: Plaindome STATE OR FOREIGN COUNTRY: New Jersey COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
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LAST NAME: KIM FIRST NAME: In Jong MIDDLE NAME:
CITY: Seoul STATE OR FOREIGN COUNTRY: Korea COUNTRY OF CITIZENSHIP: Korea
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 4

LAST NAME: LIVINGSTON FIRST NAME: Philip MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: USA
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 5

LAST NAME: KIM FIRST NAME: Hyun Jin MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: Korea
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 6

LAST NAME: GOVINDASWAMI FIRST NAME: Ragupathi MIDDLE NAME:
CITY: New York STATE OR FOREIGN COUNTRY: New York COUNTRY OF CITIZENSHIP: India
POST OFFICE ADDRESS: c/o Office of Industrial Affairs, CITY: New York STATE OR COUNTRY: New York ZIP CODE: 10021
Memorial Sloan-Kettering Cancer Center

1275 York Avenue

FULL NAME AND RESIDENCE OF INVENTOR 7

LAST NAME: PARK

FIRST NAME: Tae Kyo

MIDDLE NAME:

CITY: Taejon

STATE OR FOREIGN COUNTRY: Korea

COUNTRY OF CITIZENSHIP: Korea

POST OFFICE ADDRESS: c/o Office of Industrial Affairs,
Memorial Sloan-Kettering Cancer Center
1275 York Avenue

CITY: New York

STATE OR COUNTRY: New York

ZIP CODE: 10021

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SIGNATURE OF INVENTOR 1: _____ DATED: _____

SIGNATURE OF INVENTOR 2: _____ DATED: _____

SIGNATURE OF INVENTOR 3: _____ DATED: _____

SIGNATURE OF INVENTOR 4: _____ DATED: _____

SIGNATURE OF INVENTOR 5: *[Signature]* DATED: 2-16-98

SIGNATURE OF INVENTOR 6: _____ DATED: _____

SIGNATURE OF INVENTOR 7: *Tae kyo Park* DATED: 2-25-98

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Samuel J. DANISHEFSKY, Prashant P. DESHPANDE, In Jong KIM, Philip LIVINGSTON,
Hyun Jin KIM, Ragupathi GOVINDASWAMI and Tae Kyo PARK

Serial or Patent No: ~~09~~ 09/042,280

Filed: January 13, 1998

For: COLON CANCER KH-1 AND N3 ANTIGENS

**DECLARATION CLAIMING SMALL ENTITY STATUS --
NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION: Sloan-Kettering Institute for Cancer Research

ADDRESS OF ORGANIZATION: 1275 York Avenue, New York, New York 10028

TYPE OF ORGANIZATION

- ☐ University or other institution of higher education
- ☒ Tax exempt under Internal Revenue Service Code (26 U.S.C. §501(a) and 501(c)(3))
- ☐ Nonprofit scientific or educational organization under statute of state of the United States of America
(name of state:)
citation of statute:)
- ☐ Would qualify as tax exempt under Internal Revenue Service Code (26 U.S.C. §501(a) and 501(c)(3)) if located in the United States of America
- ☐ Would qualify as nonprofit scientific or educational under statute of state of the United States of America if located in the United States of America
(name of state:)
(citation of statute:)

~~I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 C.F.R. §1.9(e) for purposes of paying reduced fees under Section 41(a) or (b) of Title 35, United States Code with regard to the invention entitled~~

COLON CANCER KH-1 AND N3 ANTIGENS

by inventor(s) Samuel J. DANISHEFSKY, Prashant P. DESHPANDE, In Jong KIM, Philip LIVINGSTON, Hyun Jin KIM, Ragupathi GOVINDASWAMI and Tae Kyo PARK described in

- ☐ the specification filed herewith
☒ application Serial No. ~~088~~ 9/042,280, filed January 13, 1998
☐ Patent No. , issued

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above-identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 C.F.R. §1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 C.F.R. §1.9(d) or a nonprofit organization under 37 C.F.R. §1.9(e).

*NOTE: Separate declarations are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 C.F.R. §1.27)

FULL NAME:

ADDRESS:

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate (37 C.F.R. §1.28(b)).

Name of Person Signing: James S. Quirk

Title in Organization: Senior Vice President -- Research Resources Management

Address of Person Signing: 1275 York Avenue, New York, New York 10028

Signature:



Date:

1/20/98

ASSIGNMENT

WHEREAS, we, DANISHEFSKY, Samuel J., residing at 22 Brayton Street, Englewood, New Jersey 07631, a citizen of the U.S.A.;

DESHPANDE, Prashant P., residing at 26-05 Pheasant Hollow Drive, Plaindome, New Jersey 08536, a citizen of India;

KIM, In Jong, residing at U-Sugn Apt. 9-503, Sindaebang-dong, Dong Jak-Ku, Seoul, 156-010 Republic of Korea, a citizen of Korea;

LIVINGSTON, Philip, residing at 156 East 79th Street, New York, New York 10021, a citizen of the U.S.A.;

KIM, Hyun Jin, residing at 504 East 81st Street, New York, New York 10028, a citizen of Republic of Korea;

GOVINDASWAMI, Ragupathi, residing at 504 East 81st Street, New York, New York 10028, a citizen of India;

PARK, Tae Kyo, residing at Yusung-ku, Taejon, Korea 305-380, a citizen of Korea
hereinbelow called "Assignors" have made a certain invention in

COLON CANCER KH-1 AND N3 ANTIGENS

described in the specification in U.S. patent application Serial No. ~~388~~ 9/042,280 filed in the U.S. Patent and Trademark Office on January 13, 1998; and

WHEREAS, SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH, a nonprofit organization organized and existing under and by virtue of the laws of the State of New York and having offices and doing business at 1275 York Avenue, New York, New York 10028 and elsewhere, hereinbelow called the "Assignee", is desirous of securing the entire right, title and interest in to the said invention, application and Letters Patent, when granted, and in and to any divisions, continuations, improvements, reissues or extensions that may be made or granted thereon;

NOW, THEREFORE, BE IT KNOWN, that for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by the said Assignee, and other good and valuable consideration, the receipt of all of which is hereby acknowledged, we, the said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Assignee, its successors and assigns, the entire right, title and interest throughout the world in and to the said invention, application and Letters Patent, when granted, and in and to any

divisions, continuations, improvements, reissues or extensions that may be made or granted on any of them;

TO HAVE AND TO HOLD the same to the full end of the term or terms for which said Letters Patent may be granted, as fully and completely as the same might be held by us had this sale and assignment not been made.

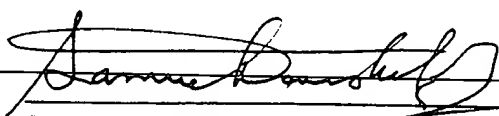
For the consideration aforesaid, we hereby covenant and agree to and with the said Assignee, its successors and assigns, that whenever its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with said application or invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of said Letters Patent is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or continuation or extension of the same, and will do all acts necessary or required to secure to the said Assignee, its successors and assigns, the title to and full benefit of all rights hereby assigned, without charge to said Assignee or its successors or assigns, but at its or their expense;

AND the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this sale and assignment.

For the consideration aforesaid, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto the said Assignee, its successors and assigns, or the nominees of any of them, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States, and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States, and in and to the invention described in said applications; and we hereby authorize and empower said Assignee and its successors, assigns or nominees, to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successors, assigns or nominees, in any or all countries where it may desire to file such application, and where said application may be filed by another than the inventor; and we hereby covenant and agree to sign all papers and drawings, take all rightful oaths, execute all rightful affidavits, and do all acts necessary or required to be done for the procurement and maintenance of Letters Patent or other form of protection for said invention in countries foreign to the United States, and for further investing or confirming the right and title thereto in the Assignee, its successors, assigns or nominees, without charge to said Assignee, its successors, assigns or nominees, but at its or their expense.

We declare under penalty of perjury under the laws of the United States of America that we have signed this document as our own free act and that all of the foregoing is true and correct.

Dated: 2-19-98
Witness: Stephen F. Felt


DANISHEFSKY, Samuel J., Inventor

Dated: _____

Witness: _____

DESHPANDE, Prashant P., Inventor



Dated: 4/2/98

Witness: _____

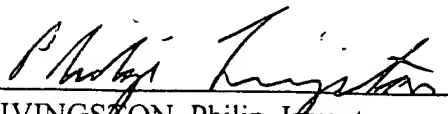
KIM, In Jong, Inventor

S Campbell Echols

Dated: 2/19/98

Witness: _____

LIVINGSTON, Philip, Inventor

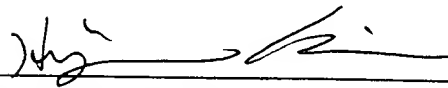


S Campbell Echols

Dated: 2/16/98

Witness: _____

KIM, Hyun Jin, Inventor



S Campbell Echols

Dated: 2/19/98

Witness: _____

GOVINDASWAMI, Ragupathi, Inventor



S Campbell Echols

Dated: _____

Witness: _____

PARK, Tae Kyo, Inventor

ASSIGNMENT

WHEREAS, we, DANISHEFSKY, Samuel J., residing at 22 Brayton Street, Englewood, New Jersey 07631, a citizen of the U.S.A.;

DESHPANDE, Prashant P., residing at 26-05 Pheasant Hollow Drive, Plaindome, New Jersey 08536, a citizen of India;

KIM, In Jong, residing at U-Sugn Apt. 9-503, Sindaebang-dong, Dong Jak-Ku, Seoul, 156-010 Republic of Korea, a citizen of Korea;

LIVINGSTON, Philip, residing at 156 East 79th Street, New York, New York 10021, a citizen of the U.S.A.;

KIM, Hyun Jin, residing at 504 East 81st Street, New York, New York 10028, a citizen of Republic of Korea;

GOVINDASWAMI, Ragupathi, residing at 504 East 81st Street, New York, New York 10028, a citizen of India;

PARK, Tae Kyo, residing at Yusung-ku, Taejon, Korea 305-380, a citizen of Korea
hereinbelow called "Assignors" have made a certain invention in

COLON CANCER KH-1 AND N3 ANTIGENS

described in the specification in U.S. patent application Serial No. ~~001~~ 9/042,280 filed in the U.S. Patent and Trademark Office on January 13, 1998; and

WHEREAS, SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH, a nonprofit organization organized and existing under and by virtue of the laws of the State of New York and having offices and doing business at 1275 York Avenue, New York, New York 10028 and elsewhere, hereinbelow called the "Assignee", is desirous of securing the entire right, title and interest in to the said invention, application and Letters Patent, when granted, and in and to any divisions, continuations, improvements, reissues or extensions that may be made or granted thereon;

NOW, THEREFORE, BE IT KNOWN, that for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by the said Assignee, and other good and valuable consideration, the receipt of all of which is hereby acknowledged, we, the said Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Assignee, its successors and assigns, the entire right, title and interest throughout the world in and to the said invention, application and Letters Patent, when granted, and in and to any

divisions, continuations, improvements, reissues or extensions that may be made or granted on any of them;

TO HAVE AND TO HOLD the same to the full end of the term or terms for which said Letters Patent may be granted, as fully and completely as the same might be held by us had this sale and assignment not been made.

For the consideration aforesaid, we hereby covenant and agree to and with the said Assignee, its successors and assigns, that whenever its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with said application or invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of said Letters Patent is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or for the reissue or continuation or extension of the same, and will do all acts necessary or required to secure to the said Assignee, its successors and assigns, the title to and full benefit of all rights hereby assigned, without charge to said Assignee or its successors or assigns, but at its or their expense;

AND the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this sale and assignment.

For the consideration aforesaid, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto the said Assignee, its successors and assigns, or the nominees of any of them, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States, and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States, and in and to the invention described in said applications; and we hereby authorize and empower said Assignee and its successors, assigns or nominees, to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successors, assigns or nominees, in any or all countries where it may desire to file such application, and where said application may be filed by another than the inventor, and we hereby covenant and agree to sign all papers and drawings, take all rightful oaths, execute all rightful affidavits, and do all acts necessary or required to be done for the procurement and maintenance of Letters Patent or other form of protection for said invention in countries foreign to the United States, and for further investing or confirming the right and title thereto in the Assignee, its successors, assigns or nominees, without charge to said Assignee, its successors, assigns or nominees, but at its or their expense.

We declare under penalty of perjury under the laws of the United States of America that we have signed this document as our own free act and that all of the foregoing is true and correct.

Dated: _____
Witness: _____

DANISHEFSKY, Samuel J., Inventor

Dated: Feb. 24, 1998
Witness: Zhongping Shi
CPK, BMS, LV, NJ08543

Deshpande Prashant
DESHPANDE, Prashant P., Inventor

Dated: _____
Witness: _____

KIM, In Jong, Inventor

Dated: _____
Witness: _____

LIVINGSTON, Philip, Inventor

Dated: 2/16/98
Witness: S. Campbell

Kim Hyun Jin
KIM, Hyun Jin, Inventor

Dated: _____
Witness: _____

GOVINDASWAMI, Ragupathi, Inventor

Dated: _____
Witness: _____

PARK, Tae Kyo, Inventor

ASSIGNMENT

WHEREAS, we, DANISHEFSKY, Samuel J., residing at 22 Brayton Street, Englewood, New Jersey 07631, a citizen of the U.S.A.;

DESHPANDE, Prashant P., residing at 26-05 Pheasant Hollow Drive, Plaindome, New Jersey 08536, a citizen of India;

KIM, In Jong, residing at U-Sugn Apt. 9-503, Sindaebang-dong, Dong Jak-Ku, Seoul, 156-010 Republic of Korea, a citizen of Korea;

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COLON CANCER KH-1 AND N3 ANTIGENS

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WHEREAS, SLOAN KETTERING INSTITUTE FOR CANCER RESEARCH, a nonprofit organization organized and existing under and by virtue of the laws of the State of New York and having offices and doing business at 1275 York Avenue, New York, New York 10028 and elsewhere, hereinbelow called the "Assignee", is desirous of securing the entire right, title and interest in to the said invention, application and Letters Patent, when granted, and in and to any divisions, continuations, improvements, reissues or extensions that may be made or granted thereon;

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divisions, continuations, improvements, reissues or extensions that may be made or granted on any of them;

TO HAVE AND TO HOLD the same to the full end of the term or terms for which said Letters Patent may be granted, as fully and completely as the same might be held by us had this sale and assignment not been made.

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Dated: _____
Witness: _____

DANISHEFSKY, Samuel J., Inventor

Dated: _____

Witness: _____

DESHPANDE, Prashant P., Inventor

Dated: _____

Witness: _____

KIM, In Jong, Inventor

Dated: _____

Witness: _____

LIVINGSTON, Philip, Inventor

Dated: 2/16/98

Witness: _____

S. Campbell Echols

[Signature]
KIM, Hyun Jin, Inventor

Dated: _____

Witness: _____

GOVINDASWAMI, Ragupathi, Inventor

Dated: 2/25/98

Witness: _____

Hye Kyung Chang

LG Chemical Research Institute

Yusung-Ku

Taejeon - KOREA 305-380

Tae Kyo Park

PARK, Tae Kyo, Inventor